

Book 'G'

RESURVEY of part of
the Exterior of Tzin - RYE

1427

No. 1427

BOOK 1427

LAMPART U.S.D.S.

4-671

FIELD NOTES
GENERAL LAND OFFICE.

No. 1427

Contract # 98

Copies by E. T. S. 8/03

note must be returned as above

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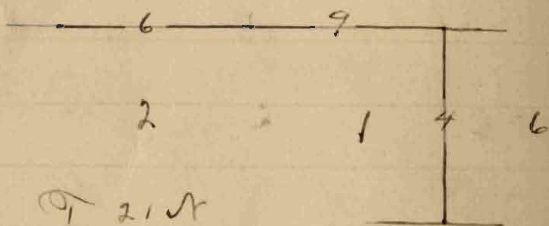
Field Notes
of the ^{re} Survey
of the
North Boundary
of
T. 21 N., R. 7. E.
of the
Gila & Salt River Base & Meridian
in the
Territory of Arizona
as surveyed by
James A. Lampert,
U. S. Deputy Surveyor
under his
Contract No. 98.
dated June 30, 1902

Survey commenced May 14, 1903.
Survey completed May 16, 1903

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Q 22 N A 7 E

35 36



Q 21 N
R 7 E

Survey commenced May 14 1903 and executed with a W & L E Furley Transit No 15, with Polar attachment. The horizontal limb is provided with two opposite Verniers reading to single minutes of arc, which also, is the least count of the verniers of the Latitude and Declination arcs.

I examine the adjustments of the instrument and correct the level and collimation errors; then to test the Polar apparatus by comparing its indications resulting from Polar observations made during a.m. and p.m. hours, with a true meridian determined by observations on Polaris. I proceed as follows:—

May 14: at the cor. of Secs. 1, 6, 7 and 12, T 21 N R 7 and 8 E
 Latitude $35^{\circ} 15' N$, Longitude $111^{\circ} 34' W$ at 3 h 5 m pm lmt by my watch. I set off

$35^{\circ} 15' N$ on the lat. arc,
and $18^{\circ} 31' N$ on decl arc,
determine with the Solar a
true meridian; and mark
a point thereof on a stone
firmly set in the ground
5.00 Chs N. of the Cor, May 14

May 15: at 3 h 59 m
a.m. Pmt. I observe Polaris
at Eastern Elongation in
accordance with manual of
instructions, and mark a
point in the line thus
determined on a plug
driven in the ground
5.00 Chs N. of my station.

at 6 h 45 m am Pmt.
I lay off the azimuth of
Polaris $1^{\circ} 29'$ to the West
and mark the True Meridian
thus determined by cutting a
small groove on the stone
set May 14, on which the
true meridian falls 0.25 ins

3 Recovery of line bet. Secs 1 and 6

East of the mark determined by the Solar
 at 7h 15m am (Lat. set off $35^{\circ} 15' N$ on the lat arc, and $18^{\circ} 42' N$ on the decl arc) and mark a point on the True Meridian determined with the Solar, by a cross on the stone already set 5.00 chs N. of my station. This mark falls about 0.33 ins East of the True meridian determined by the Polaris observation.

The Solar apparatus, by am and pm observations, defines positions for true meridians respectively about 12" East and 13" West of the true Meridian established by Polaris observation. Therefore conclude that the adjustments of the Instrument

T 21 N R 7 and 8 E

Chains

are satisfactory
The magnetic bearing of
the True Meridian at
7 am is N 14° 34' W.
The angle thus determined, reduced
by the table gives the mean magnetic
decl 14° 30' E

I commence at the corner
to sec 1, 6, 7, and 12 T. 21
N Rs 7 and 8 E

Which is a fine stake properly
marked and witnessed as
described by the Surveyor
General. *Mean Mag. Decl. 14° 30' E.*

Hence I run,

North Bet Secs. 1+6. T 21 N R 7+8 E
on Random Line

4000 Set Temp. 1/4 sec. cor.

8000 after diligent search no signs
of the old cor. can be found

I Set Temp. Township corner

Hence I run.

Recovery of line bet secs 1 and 36 and

Chains West on Random line Bet secs
1 + 36.

4000 after diligent search no old $\frac{1}{4}$
sec corner can be found.

8000 after diligent search no old
corner can be found.

I set Temp corner of secs.
1 + 2 + 35 + 36

I continue my line West
41.09 Intersect The $\frac{1}{4}$ corner. Bet secs
2 + 35 which is a granite stone
in place 6 x 4 feet 2 feet above
ground. marked $\frac{1}{4}$ on N face
with a cross + at exact point
from which a jumper 15 ins
in diam bears $N 32^{\circ} E$ 25 links
dist marked. $\frac{1}{4}$ S B.T. A pine
8 ins in diam bears $S 76^{\circ} 30' E$
85 links dist marked $\frac{1}{9}$ S B.T.

2 and 35- 9 21 and 22 N R 7 E

6

Lhamo

8087

I continue my line West.
 Intersect the corner to rods
 2 + 3 + 37 + 35. which is a
 granite stone firmly set in the
 in the ground 10 x 10 ins 10 ins
 above ground. marked with
 2 notch on E and 4 notches
 on W edges from which a
 pine 24 ins in diam bears N ^{73°}
 175 licks dist
 E ¹⁸⁴ marked. T 22 N R 7 E S 35 B.T.
 A pine 10 ins in diam bears
 S 57° 30' E. 25 licks dist marked
 T 21 N R 7 E S 2 B.T. A pine 20
 ins in diam bears ^{3045'} ¹²¹ S 7° W 108 licks
 dist marked T 22 N R 7 E S 3 B.T.
 A pine 24 ins in diam bears
 N ^{54° 30'} S ⁵⁸ 50 licks dist marked
 T 22 N R 7 E S 34 B.T.

Thence I run.

East

West on true line Bet cor 2 + 35.

7

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Resurvey of Line bet. Sec 2 and

Chains

- slight ascend. over rolling ground
through heavy pine timber
- 30.00 Steep ascend. over large granite
boulders up West slope of Eldin
mountain bears N + S.
- 39.78 1/4 corner already described.
- 5051 wash. 50 lbs wide bears S 70° W.
ascend steep through thick
spruce + pine timber
- 7750 Top of spur 2000 feet above base
of Mountain bears N + E + S + W.
- 8087 marked a granite stone in place
20 x 20 inches 12 ins above the ground
with one notch on E and 5
notches on S + W edges ^{for corner Secs 1 + 2 - 35 - 36} from which
a pine 18 ins in diam bears N 10° E
5 lbs dist Marked T 22 N R 7 E
- S 36 B.T. A pine 24 ins in
diam bears S 42° E 25 lbs dist
Marked T 21 N R 7 E S 1 B.T.

Chains

a pine 12 ins in diam. bears
 $S 56^{\circ} W$. 10 lbs dist marked T 21 N R 7
 E S 2 B T. A pine 16 ins in diam
 bears $N 60^{\circ} W$ 58 lbs marked T 22 N
 R 7 E B 35

Land Mountains and Stone 4th
 rate Timber, pine + spruce
 mountains and heavy timber land.
 8087 chs.

May 15, 1903

May 16, 1903: At 8^h 10 m
 am lmt. I set off
 $35^{\circ} 16' N$ on lat arc, and
 $18^{\circ} 56' N$ on decl arc
 and determine a
 true meridian
 with the solar at
 the Cor of Sec ^{Ts 21 and 22} 1, 2, 35, and 36
 T R, 7 and ~~8~~ E

Resurvey of Line bet secs

- Chains
- Thence, S. run: $1 \text{ Pa. } 14^{\circ} 30' \text{ E}$
 East on true line bet secs 1 + 36
 along south slope of Mountain
 over rough ground. Through heavy
 pine + spruce timber
- 17.00 Step ascend.
- 29.00 Top bears N + S.
- 35.00 Step descend. Into deep Guck.
 bears N + S Course S
- 40.00 marked granite stone in place
 for $\frac{1}{4}$ sec cor bet. secs 1 and 36
 20×18 inches 10 ins above ground
 marked $\frac{1}{4}$ on N. face with cross
 + at exact point from which a
 pine 10 inches in diam bears
 $N 33^{\circ} \text{ E}$. 21 lbs dist marked $\frac{1}{4}$ S. 36
 B.T. spruce 24 inches in diam.
 bears S 7° E . 38 lbs dist marked
 $\frac{1}{4}$ S 1 B.T.
- 46.20 wash. 60 tubes wide bears S 10° E .
- 58.00 ascend steep
- 74.00 Top ^{mountain} 2500 feet above base of.

1 and 36 T 21 and 22 N R 7 E

110

Chains

mountain base N + S.

8000

Set granite stone $30 \times 12 \times 8$ ins Set
for T Cor. of T's 21 and 22 N, R's 7 and 8 E.
20 ins ground, marked with 6.

notches on N + S + E + W edges from

which a spence 12 ins in diam

bears N 32° E. 56 lbs dist marked

T 22 N R 8 E S 31 B.T. a spence 6 ins

in diam bears S 56° E. 21 lbs dist

marked. T 21 N R 8 E. S 6 B.T. a spence

15 ins in diam bears S 40° W. 20

lbs dist marked. T 21 N R 7 E S 1

B.T. a spence 15 ins in diam

bears N 27° W. 21 lbs dist marked

May 16: At this corner, I set 9A

off $18^\circ 58'$ N. on decl arc; and

at 11 h 56 m. Am. I m t. I

observe the sun on the
Meridian; the resulting latitude

is $35^\circ 16'$ N

W. Lept. Carey.

9000

~~mountain bears N + S
 Set a granite stake 30 x 12 x 8 inches
 20 inches on the ground for the
 cor. of secs 1 + 6 + 31 + 36 marked
 with 6 notches~~

General Description

The cor. of Tps 21 and 22 N. Rs 7 and 8 E is on the Summit of Eldon Mountain at an elevation of about 9500 ft. above sea level. The S. bdy of Secs 35 and 36 lies entirely on top of the mountain in an exceedingly broken country, which in many places is inaccessible. There is considerable scrub pine and spruce timber and some bunch grass. The land is stony.

James A. Sampson
U.S. Deputy Surveyor

No. 1427

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A P P R O V A L.

Office of the

United States Surveyor-General,

Phoenix, Arizona.

2/11/04
Feb. 11 - 1904

The foregoing field notes of the ^{Re} survey of part of the Exterior of T. 21 N. R. 7 E.


of the Gila and Salt River Base and Meridian, in the Territory of Arizona,

Executed by James A. Lampart

United States Deputy Surveyor, under his contract No. 98, dated June 30, 1902,

having been critically examined, and the necessary corrections and explanations

made, the said field notes, and the surveys they describe, are hereby approved.



U. S. Surveyor-General.